

AN/TPS-59 RADAR SYSTEM

DESCRIPTION

The AN/TPS-59(V)3 radar system is a transportable, long-range, solid-state, 3-D, L-band radar. It is the MAGTF's principal air surveillance radar and is integrated into the AN/TYQ-23(V)4 Tactical Air Operations Module (TAOM). It may also be configured for operation with the Air Defense Communications Platform to provide Theater Ballistic Missile track data to the Joint Tactical Information Distribution System.



OPERATIONAL IMPACT

The AN/TPS-59(V)3 is optimized to detect and track theater ballistic missile (TBM) and conventional air-breathing targets, either of which can be a serious

threat to MAGTF operations. The AN/TPS-59(V)3 will primarily be used to support MAGTF aviation during sustained operations ashore as part of a joint theater air and missile defense architecture.

PROGRAM STATUS

Research and development efforts have produced engineering change proposals to replace obsolete hardware and ensure that the AN/TPS-59(V)3 remains a viable sensor throughout its planned service life. Implementation of these changes began in FY 2003. Additionally, the Marine Corps is pursuing a 3-D, long-range sensor replacement capability for the AN/TPS-59(V)3 that is still capable of engaging air-breathing and TBM targets but which possesses a vastly reduced footprint and improved mobility. Initial operational capability of the upgraded radar is scheduled for FY 2008.

PROCUREMENT PROFILE:

Quantity:

FY 04

various

FY 05

various

DEVELOPER/MANUFACTURER

Lockheed Martin Corporation, Syracuse, NY